

PERSONAL SECURITY AND  
TRACKING SYSTEM  
Hoffman et al.  
Docket No.: S01398.70003.US

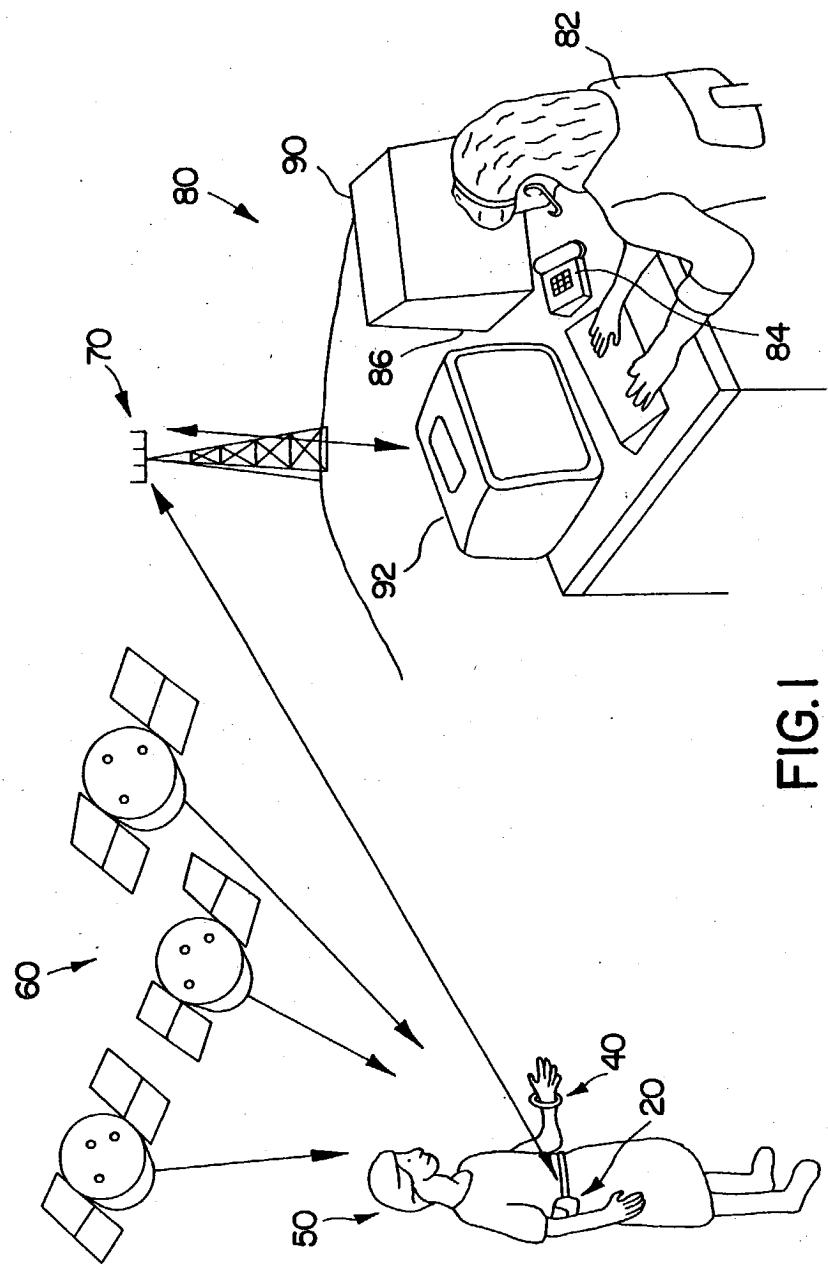


FIG. 1

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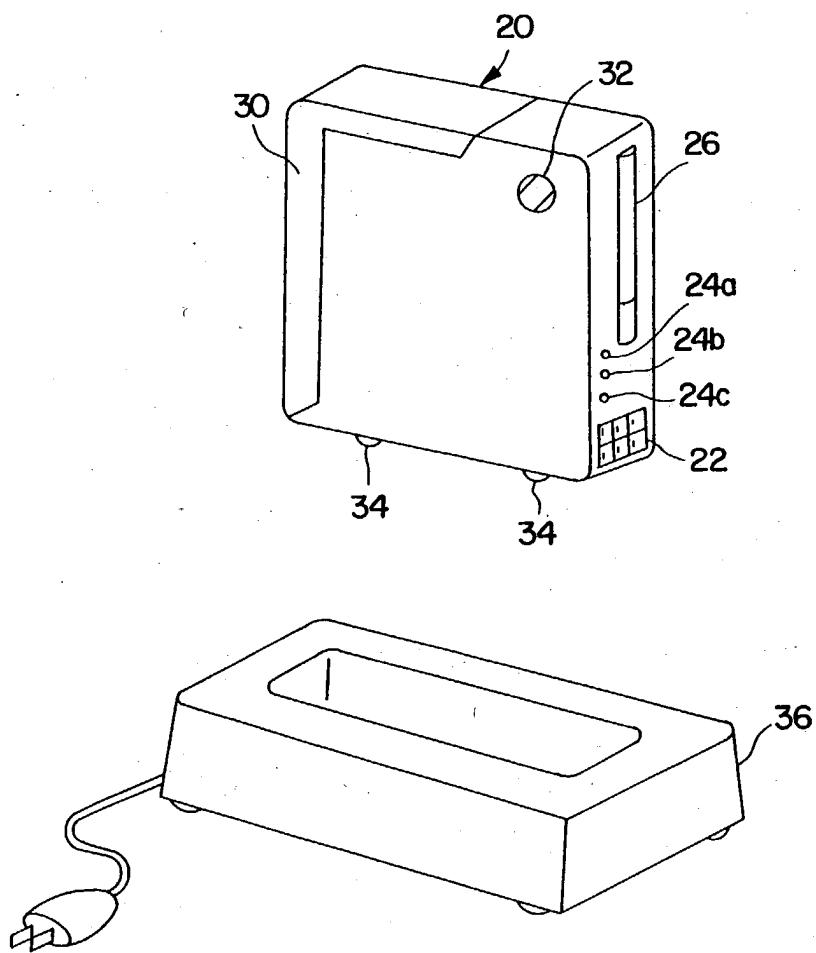


FIG.2

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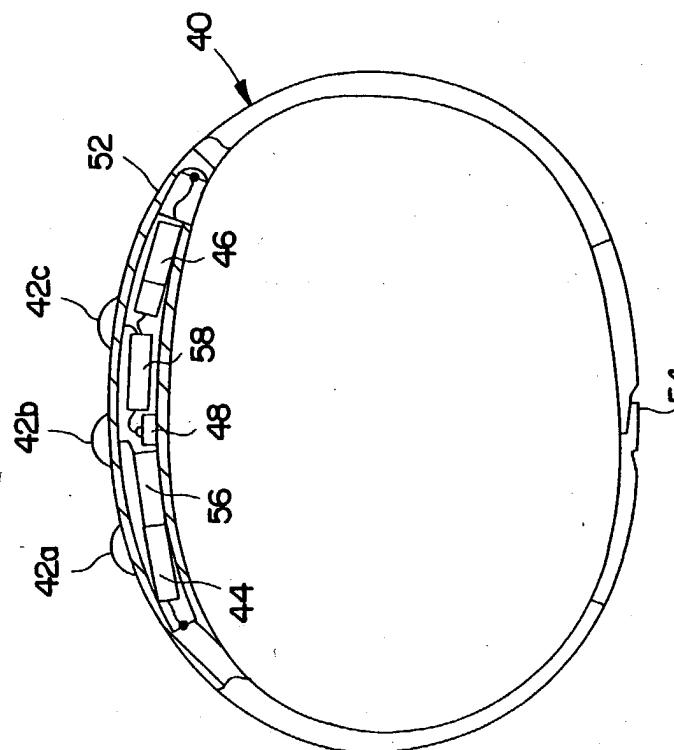


FIG. 3B

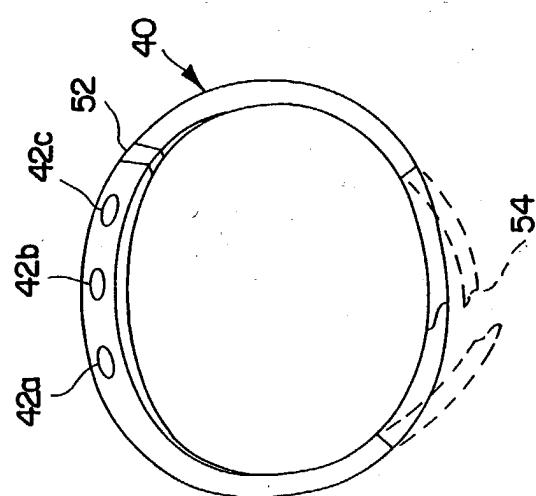


FIG. 3A

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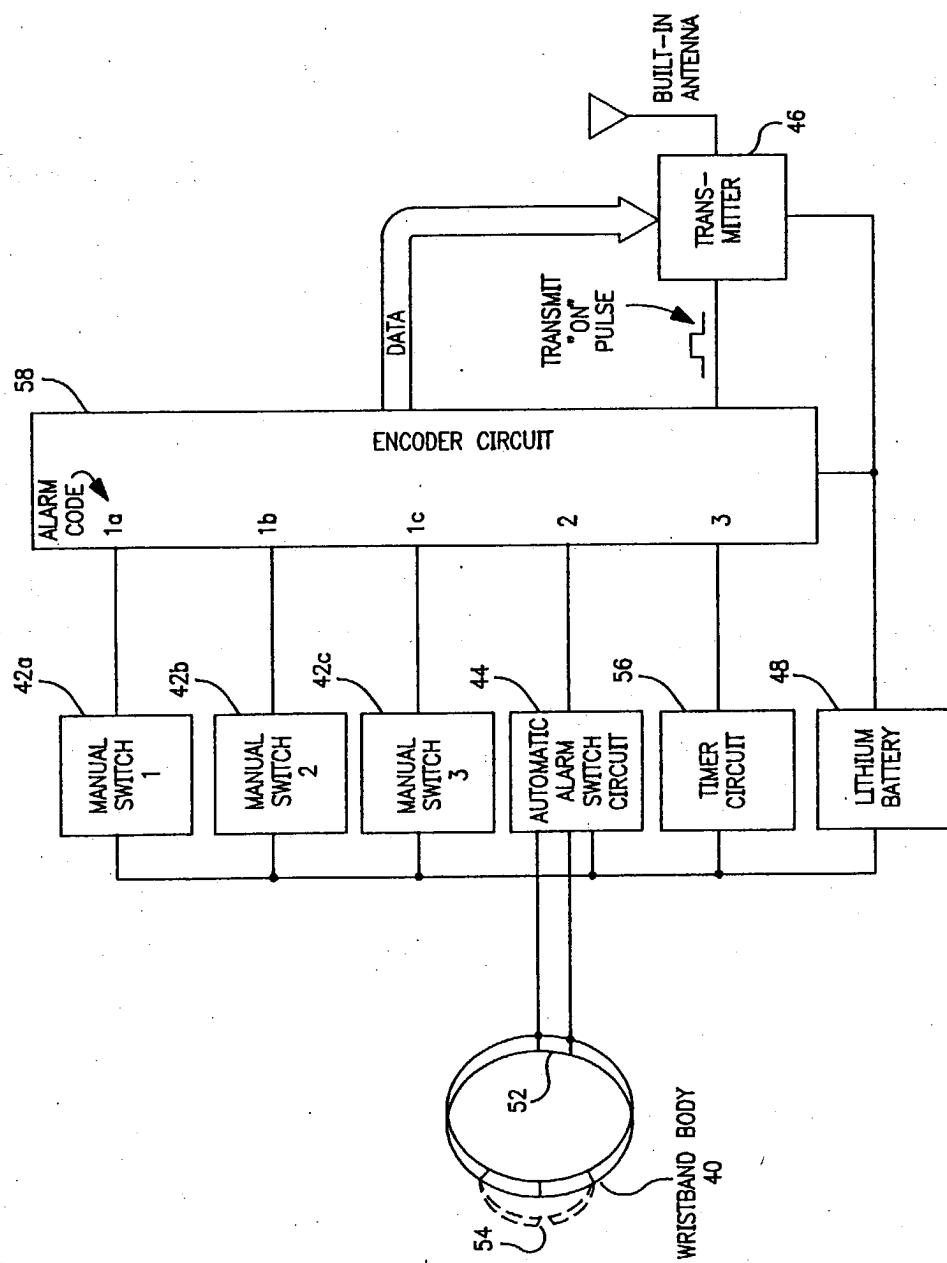


FIG. 4

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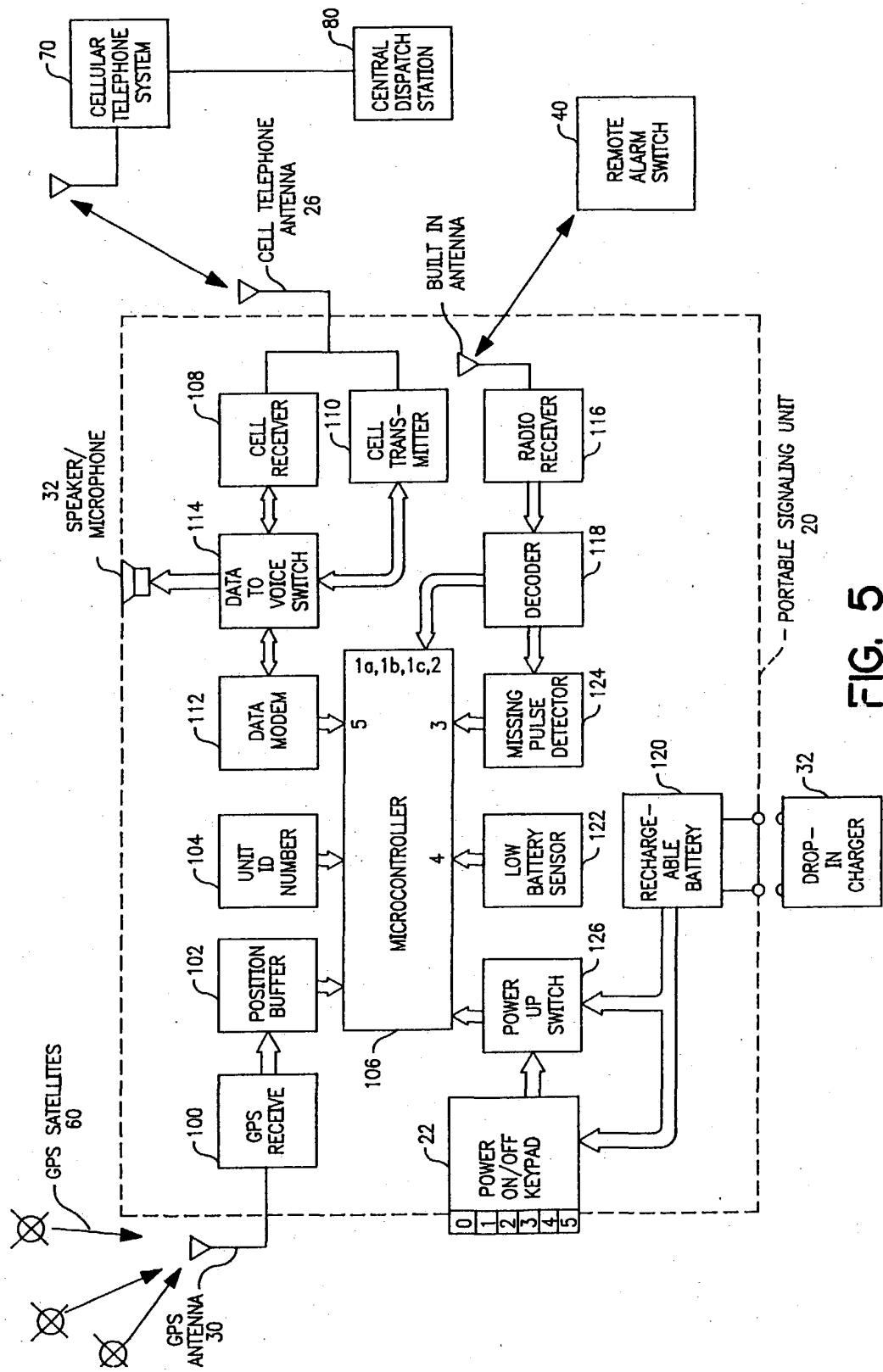
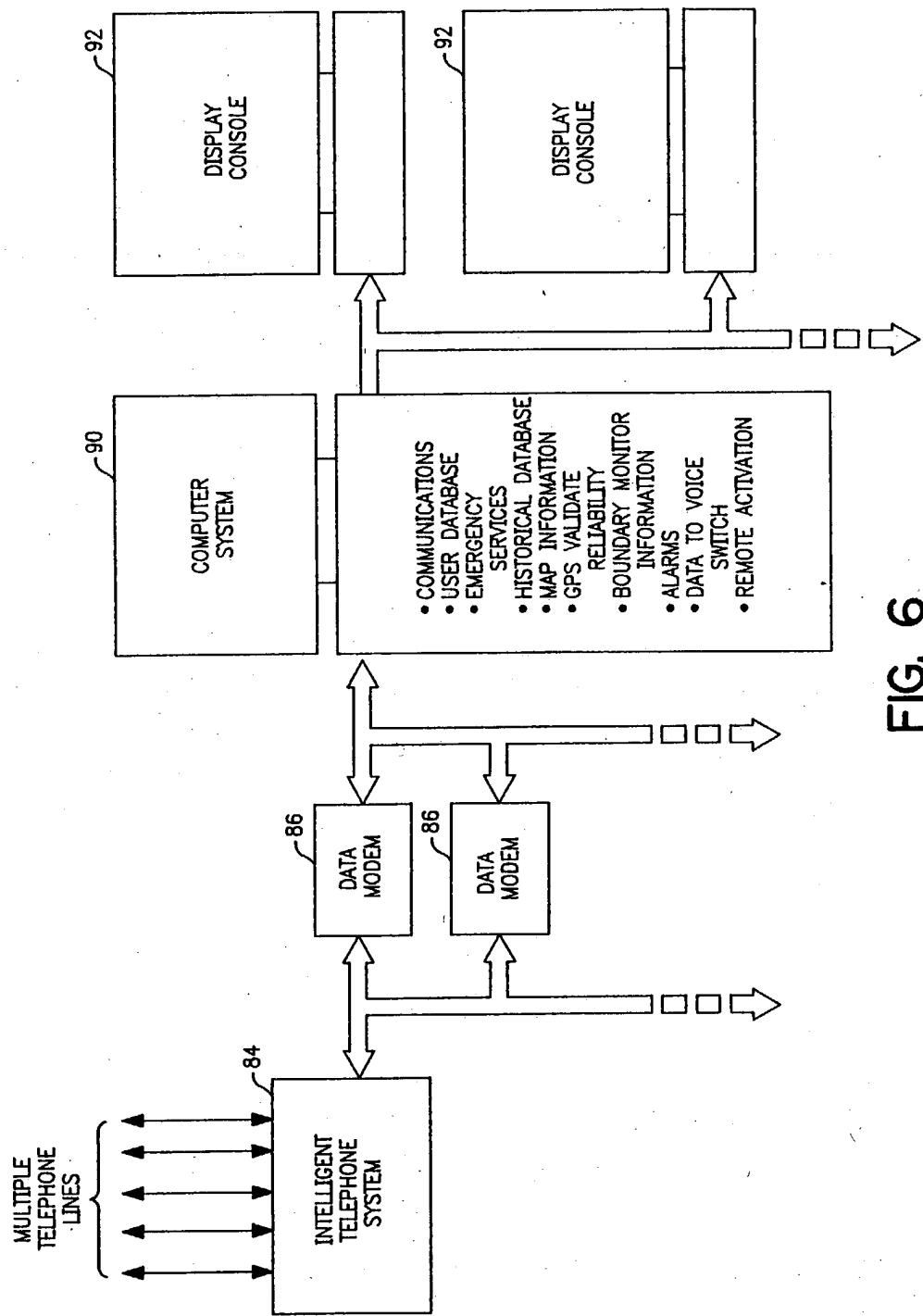


FIG. 5

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Situation	Activation Method	Information received, verified, displayed and stored at central dispatch station		
		Unit Serial/ID Number	Alarm Code	Location Coordinates
INITIATED FROM PORTABLE SIGNALING UNIT:				
1. Person 50 is able to alert the central dispatch station 80 by depressing one of several manual alarm push-button switches on portable signaling unit 20 relating to various health conditions or a threat to personal safety.	Manual alarm push-button switch 24a, 24b, 24c, etc. is depressed on portable signaling unit 20 which activates portable signaling unit 20 to alert central dispatch station 80.	XXXXXX	1A, 1B, 1C, Etc.	XXXXXX YYYYYY ZZZZ
2. Person 50 is able to alert the central dispatch station 80 by depressing one of several manual alarm push-button switches on portable signaling unit 20 relating to various health conditions or a threat to personal safety.	Manual alarm push-button switch 42a, 42b, 42c, etc. is depressed on remote alarm switch unit 40. Radio transmitter 46 sends a unique code to receiver 116, decoded by decoder 118, which activates signaling unit 20 to alert central dispatch station 80.	XXXXXX	2A, 2B, 2C, Etc.	XXXXXX YYYYYY ZZZZ
3. remote alarm switch unit 40 is forcibly removed from person 50 before he or she is able to summon help.	Automatic alarm switch circuit 44 is operated when remote alarm switch clasp is opened, or wristband is cut or broken. Radio transmitter 46 sends a unique code to receiver 116, decoded by decoder circuit 118, which then activates portable signaling unit 20 to alert central dispatch station 80.	XXXXXX	3	XXXXXX YYYYYY ZZZZ

FIG. 7A

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	Portable signaling unit 20 fails to receive a periodically transmitted signal from remote alarm switch 40 due to separation distance. A uniquely coded signal is normally detected at receiver 116 and decoded by decoder 118. If missing pulse detector 124 fails to be reset by the periodic signal, then microcontroller 106 senses this as an alarm state. Signaling unit 20 is then activated to alert central dispatch station 80.	XXXXXX YYYYYY ZZZZ
4. Portable signaling unit 20 is forcibly removed from person 50 before he or she is able to summon help.	Low battery sensor circuit 122 activates portable signaling device 20 to alert the central dispatch center 80 that a low battery condition exists. There will be enough battery power remaining for limited operation.	XXXXXX YYYYYY ZZZZ
5. Low battery condition is sensed in portable signaling unit 20.	XXXXXX YYYYYY ZZZZ	5
INITIATED FROM CENTRAL DISPATCH STATION:		
6. Current location of person is desired. Information is requested by subscriber on an "as needed" basis such as locating a lost person.	Central dispatch station 80 activates portable signaling unit 20 via cellular telephone system 70 for a limited time to determine and display position of portable signaling unit 20.	XXXXXX YYYYYY ZZZZ
7. Person is to be monitored for compliance within preset boundary.	Central dispatch station 80 activates portable signaling unit 20 via cellular telephone system 70 at predetermined time intervals to track position of portable signaling unit 20 within present boundaries. Alarm is activated at the central dispatch station if boundary limits are violated.	XXXXXX YYYYYY ZZZZ
8. Spot check to insure system is working and to compile historical data.	Central dispatch station activates portable signaling unit 20 via cellular telephone system 70 at predetermined time intervals. Central dispatch station 80 alarm is activated if there is no response or invalid data is received.	XXXXXX YYYYYY ZZZZ
		6

FIG. 7B